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CENTRAL INTELLIGENCE AGENCY
INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS

CD NO.

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COUNTRY	USSR
SUBJECT	Economic - Iron and steel
HOW PUBLISHED	Manuscript
WHERE PUBLISHED	Germany
DATE PUBLISHED	Aug 1942
LANGUAGE	German

DATE OF INFORMATION 1938 - 1941

DATE DIST. 3/ Aug 1951

NO. OF PAGES 8

SUPPLEMENT TO
REPORT NO.

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SOURCE GMDS Doc No Wi/ID 2.1050.

DATA ON CONSUMPTION OF FERROUS METALS IN THE USSR

The following tables, taken from a captured German document, were computed by a Russian prisoner of war in August 1942. No German evaluation of the reliability of the tables was given.

A note in the original document states that all consumption and production figures represent estimates for 1941 which are based on 1938 statistics and include calculations of the increase in production and demand during the three prewar years (1938 - 1941). It is not stated whether the Russian prisoner used any documents or relied on his memory. A check of the calculations reveals that the percentage figures are not always correct.

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Annual Production of Ferrous Metals in the USSR

<u>Products</u>	<u>Rolled Iron (Common Grades)</u>		<u>Rolled Iron (High Grades)</u>		<u>Steel Pipe</u>		<u>Cast-Iron Pipe</u>		<u>Cast Iron, Ferroalloys</u>	
	<u>Tons</u>	<u>% of Total</u>	<u>Tons</u>	<u>% of Total</u>	<u>Tons</u>	<u>% of Total</u>	<u>Tons</u>	<u>% of Total</u>	<u>Tons</u>	<u>% of Total</u>
<u>Industrial Region</u>										
Leningrad	204,108	2.2	98,989	5.7	72,869	9.6	8,356	3.3	--	--
West	54,509	0.6	--	--	1,007	0.1	9,243	3.6	--	--
Center	466,791	5.2	412,732	23.5	74,784	9.8	59,994	23.3	1,095,743	7.6
Including Gor'kiy Oblast		5.0	--	--	--	8.0	--	--	--	--
South	5,887,058	62.9	349,171	20.0	569,817	74.5	135,697	52.8	9,554,992	66.1
Including:										
Donbass		28.7		11.5		26.0		33.1		36.8
Dnepropetrovsk		26.6		8.0		31.5		10.6		26.0
Ural	1,614,165	17.2	519,539	29.7	45,814	6.0	42,937	16.7	2,335,689	16.2
Siberia	929,233	9.9	26,940	1.6	--	--	--	--	1,453,082	10.1
Volga (Stalingrad)	172,200	1.9	339,745	19.5	--	--	791	0.3	--	--
Azerbaijdzhan	11,182	0.1	--	--	--	--	--	--	--	--
Total	9,678,429	100.0	1,790,264	100.0	805,106	100.0	271,691	100.0	14,509,292	100.0

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Annual Consumption of Ferrous Metals by Industries

Products	Rolled Iron (Common Grades)		Rolled Iron (High Grades)		Steel Pipe		Cast-Iron Pipe		Cast Iron, Ferroalloys	
	Tons	% of Total	Tons	% of Total	Tons	% of Total	Tons	% of Total	Tons	% of Total
Consumer										
Heavy industry	3,481,226	36.6	491,749	27.9	399,693*	49.15	58,318	21.1	10,837,703	74.7
Machine building	3,543,524	37.2	1,161,057	66.0	233,031	28.66	88,379	32.1	2,854,167	19.7
Including arma- ments industry	1,935,652	20.3	283,252	16.2	170,229	20.93	--	--	1,784,560	12.3
Light industry	41,343	0.4	403	--	6,808	0.84	6,618	2.4	28,835	0.2
Timber industry	59,364	0.6	--	--	4,516	0.56	4,055	1.5	--	--
Food industry	94,983	1.0	61	--	29,326	3.6	8,498	3.1	--	--
Local industry	430,398	4.5	46,474	2.7	11,722	1.43	3,901	1.4	308,193	2.1
Railroad transport	1,254,809	13.2	17,757	1.0	27,784	3.42	13,182	4.8	176,953	1.2
Agriculture	112,892	1.2	1,688	0.1	19,562	2.41	5,251	1.9	52,932	0.4
Industrial cooperatives	75,055	0.8	6,682	0.4	1,648	0.2	--	--	62,826	0.4
Water transport	53,889	0.6	--	--	6,965	0.86	--	--	--	--
Remaining consumers	369,142	3.9	33,756	1.9	72,178	8.87	87,252	31.7	185,316	1.3
Total	9,516,625	100.0	1,759,627	100.0	813,183	100.0	275,454	100.0	14,506,925	100.0

* Including petroleum industry 237,211 (29.23%)

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Ferrous Metal Requirements in the Leningrad Region

	<u>Common-Grade Rolled Iron</u>		<u>High-Grade Rolled Iron</u>		<u>Steel Pipe</u>		<u>Cast-Iron Pipe</u>		<u>Cast Iron, Ferroalloys</u>	
	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>
Production	204,000		99,000		73,000		8,000		--	
Requirements	835,000	100.0	181,000	100.0	90,000	100.0	37,000	100.0	414,000	100.0
Including:										
Leningrad region production	191,000	22.2	92,000	52.8	38,000	45.0	7,000	20.9	--	--
Other production	644,000	75.8	90,000	47.2	52,000	55.0	30,000	79.1	414,000	100.0
Including:										
South	389,000	49.4	13,000	8.0	39,000	46.4	14,000	40.1	277,000	70.4
Urals	146,000	18.5	35,000	20.0	--	--	6,000	15.7	23,000	5.9
Siberia	34,000	4.3	15,000	8.7	--	--	--	--	--	--
Center	17,000	2.2	13,000	8.0	--	--	7,000	19.5	90,000	22.8

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Ferrous Metal Requirements in the Central Industrial Region

	<u>Common-Grade Rolled Iron</u>		<u>High-Grade Rolled Iron</u>		<u>Steel Pipe</u>		<u>Cast-Iron Pipe</u>		<u>Cast Iron, Ferroalloys</u>	
	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>
Production	487,000		413,000		75,000		60,000		1,096,000	
Requirements	1,985,000	100.0	815,000	100.0	183,000	100.0	86,000	100.0	1,201,000	100.0
Including:										
Central region production	339,000	17.9	302,000	38.0	47,000	27.4	31,000	37.6	460,000	38.5
Other production	1,646,000	82.1	513,000	62.0	136,000	72.6	55,000	62.4	741,000	61.5
Including:										
South	1,040,000	54.7	205,000	25.8	95,000	55.4	38,000	45.8	689,000	57.7
Urals	385,000	20.3	162,000	20.4	15,000	8.5	10,000	11.9	29,000	2.5
Siberia	102,000	5.3	--	--	--	--	--	--	15,500	1.3
Lower Volga			119,000	15.0	--	--	--	--	--	--
North					15,000	8.5	--	--	--	--

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Ferrous Metal Requirements in the Southern Industrial Region

	<u>Common-Grade Rolled Iron</u>		<u>High-Grade Rolled Iron</u>		<u>Steel Pipe</u>		<u>Cast-Iron Pipe</u>		<u>Cast Iron, Ferroalloys</u>	
	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>	<u>Tons</u>	<u>%</u>
Production	5,887,000		349,000		570,000		136,000		9,555,000	
Requirements	3,938,000	100.0	226,000	100.0	255,000	100.0	65,000	100.0	8,321,000	100.0
Including:										
Southern region production	3,471,000	90.2	85,000	38.3	232,000	95.5	54,000	87.6	7,939,000	95.7
Other production	467,000	9.8	141,000	61.7	23,000	4.5	10,000	12.4	382,000	4.3
Including:										
Center	56,000	1.5	50,000	22.7	--	--	6,000	9.3	313,000	3.8
Urals	223,000	5.8	27,000	12.2	7,000	3.0	--	--	42,000	.5
Siberia	34,500	.9	--	--	--	--	--	--	--	--
Lower Volga	56,000	1.5	58,000	26.1	--	--	--	--	--	--

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Ferrous Metal Requirements in Siberia

	Common-Grade Rolled Iron		Cast Iron, Ferroalloys	
	Tons	%	Tons	%
Production	929,000		1,453,000	
Requirements	493,000	100.0	1,364,000	100.0
Including:				
Siberian production	368,000	75.5	1,312,000	96.2
Other production	125,000	24.5	52,000	3.8
Including:				
South	56,000	11.4	18,000	1.3
Urals	56,000	11.4	16,000	1.2
Center	--	--	18,000	1.3

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Ferrous Metal Requirements in the Ural Region

	Common-Grade Rolled Iron		High-Grade Rolled Iron		Cast-Iron Pipe		Cast Iron, Ferroalloys	
	Tons	%	Tons	%	Tons	%	Tons	%
Production	1,614,000		520,000		50,000		2,336,000	
Requirements	1,077,000	100.0	337,000	100.0	36,000	100.0	2,488,000	100.0
Including:								
Ural production	598,000	57.8	271,000	80.9 (80.4)*	15,000	41.3	2,189,000	88.3
Other production	479,000	42.2	66,000	19.1 (19.6)	21,000	58.2	299,000	11.7
Including:								
South	187,000	18.0	12,000	3.7 (3.6)	10,000	30.9 (28.0)	128,000	5.2
Siberia	216,000	20.9	10,000	2.8 (3.0)	--	--	120,000	4.8
Center	25,000	2.4	32,000	9.6 (9.5)	6,000	19.2 (16.7)	43,000	1.7
Lower Volga	--	--	10,000	2.9 (3.0)	--	--	--	--

* It will be noted that the percentages given in this table are incorrect in many cases. The figures in parentheses are the actual percentages.

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